

UNIVERSAL EXTRA SHADE TENT STRUCTURE TO HAND HELD UMBRELLA

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Cross-reference to related application

[0001] (Not Applicable)

Statement regarding federally sponsored research or development

[0002] (Not Applicable)

Reference to a microfiche appendix

[0003] (Not Applicable)

Background of the invention

[0004] **Statement of the field of Endeavor:** United States Patent Class 135.

[0005] The present invention relates to **Universal extra shade tent structure to hand held umbrella**. More particularly, the present invention relates to the double use of a hand held umbrella to provide a central support umbrella roof and pole or pull attachments to comprise the main skeleton to which optional wall attachments can be added to form a partial or complete enclosure. Hand held umbrella, beach umbrella, stationary or other umbrella can be connected to the Universal extra tent shade structure that can have a double use as a , shelter, canopy, and tent with complete or partial enclosure.

[0006] Description of the Prior Art

[0007] Devices such as umbrellas, canopies, and tents are widely used outdoors. They are familiar features of gardens, yards, patios, restaurants, beaches, pools, parks and many other places.

[0008] There presently exist many variations of umbrellas. For example: hand held umbrellas, beach umbrellas, table umbrellas, and other umbrellas. There are many patents for the umbrella apparatus. Every patent of umbrella is always comprised of a central handle and folding skeleton, which can slide along a handle to support the umbrella skeleton in an unfolding position.

[0009] Inventors have proposed protective enclosures for temporary outdoor structures. Additionally, some inventors have proposed mechanisms to extend and retract umbrella enclosures.

[0010] FOR EXAMPLE, U.S. Pat. No. 144,792, November 1873, to Prentiss describes a portable combination of umbrella and netting. The net material is attached to the periphery

of the umbrella's canopy. This enclosure is long enough to reach the ground.

[0011] FOR EXAMPLE, U.S. Pat. No. 2,502,984, April 1950, to Parmenter describes an umbrella said to provide enhanced, adjustable protection from the elements.

[0012] FOR EXAMPLE, U.S. Pat. No. 2,546,228, March 1951, to Martini describes a transparent shield suspended from an umbrella.

[0013] FOR EXAMPLE, U.S. Pat. No. 2,661,752, December 1953, to Kampf et al. describes a "garden" type umbrella with a hollow support. The support contains a cord used to manipulate the umbrella's canopy. One end of the cord is attached to a runner on the support. The cord's other end, after passing through a pulley, is connected to a manually operated reel.

[0014] FOR EXAMPLE, U.S. Pat. No. 3,477,453, November 1969, to D'Ulisse and D'Ulisse describes a net for converting an umbrella to a shelter from insects. It consists of a dome-shaped net covering for beach-type umbrellas, adapted to rest on the roof of the umbrella. It possesses sidewalls that extend to the ground. A hole is provided in the center of the covering to permit protrusion of the umbrella support pole. Loops are provided at the bottom perimeter of the wall for the purpose of staking the walls to the ground. Devices are provided on the dome for securing walls to the umbrella.

[0015] FOR EXAMPLE, U. S. Pat. No. 4,022,233, May 1977, to Grundman describes an umbrella with an attached retractable protective material.

[0016] FOR EXAMPLE, U.S. Pat. No. 4,086,931, May 1978, to Hall describes an umbrella whose support is located off-center, at the side of its canopy. The space under the umbrella is enclosed by means of fabric segments suspended from its periphery.

[0017] FOR EXAMPLE, U.S. Pat. No. 4,202,363, May 1980, to Watts et al. describes a collapsible, combination umbrella and tent. The support frame is attached to two central hubs mounted on a central pole. Movement of these hubs facilitates erection and collapsing of the structure and its covering.

[0018] FOR EXAMPLE, U.S. Pat. No. 5,678,587, October 1997, to Bilotti describes an umbrella net that provides a drawstring for adjusting the height of the umbrella's net wall. It also offers a method for withdrawing the wall into a sleeve - like storage space located under the peripheral edge of the umbrella.

[0019] FOR EXAMPLE, U.S. Pat. No. 5,806,547, September 1998, to Derlinga describes a combination umbrella and gazebo. Walls dropped from the canopy of the umbrella define the structure as a gazebo. A stepped sequence of cords is attached at one end to a crank. The cords provide a way to raise and lower the sides.

[0020] FOR EXAMPLE, U.S. Pat. No. 6,009,891, January 2000, to Surface, Decker, and Fanti

describes a screen enclosure system providing a tether system attachable to the umbrella and shaped to form an exoskeleton over the umbrella. The skeleton is made by attaching many individual tethers to the umbrella over the spines of the umbrella. Also provided is a screening system attached to the exoskeleton by fasteners.

[0021] FOR EXAMPLE, U. S. Pat. Application No. 2002/0108645, Aug. 2002 to Andrea Beyer, Steven Beyer, relates to an umbrella, tent, or canopy, specifically to an umbrella with a storage chamber for an enclosure canopy of netting, and having mechanisms for canopy deployment, retraction, and interchange.

[0022] Collapsible tents, such as umbrella tents, are well known in the art. The term “umbrella tent” is commonly used in the trade because the frames for such tents can be erected and collapsed in much the same manner as an umbrella.

[0023] Some exemplary collapsible umbrella- tents are shown in, for example, U.S. Pat. Application No 2001/0007260 (G.Rousselle et al); U.S. Pat. No 5,871,026 {Tu Lin}; U.S. Pat. No. 5,230,358 (Forell); U.S. Pat. No. 4,945,936 (D. Surrendi); U.S. Pat. No. 4,202,363 (Watts et al.); U.S. Pat. No. 3,929,146 (Maiken); and U.S. Pat. No. 2,771,087 (Simonson). In these structures, there is no handle at the center of the umbrella-tent skeleton. Instead of a handle, there exists a soft cord or a frame locking mechanism.

[0024] There are many known kinds of hand held umbrella's. There are many known kinds of tents. There are many known kinds of umbrella-tents, whose skeleton can be erected and collapsed in much the same manner as an umbrella.

[0025] There are no prototype patents of any extra tent /shelter /structure, which is connected together with the skeleton of hand held or other umbrella that can be used as a universal comfortable shelter, canopy, or other tent structure with complete or partial enclosure.

[0026] There are no prototype patents of hand held umbrellas to any extra tent structure, whose skeleton arms, as needed, can be connected to separate parts of extra tent structures, and whose hand held lever handle, in the form of the umbrella-tent structure, can be disconnected, or by other way, can remove or shift from its vertical position under the umbrella skeleton roof.

Brief summary of the invention

[0027] In accordance with one embodiment of the present invention, **Universal extra shade tent structure to hand held umbrella** comprising of the following extra structural features:

[0028] three or more telescopic, folding or other poles, with special connectors on the ends, which join poles, by one end, to unfold umbrella skeleton arms and also to the apex of the hand lever, and by the second end, to the ground, to an outdoor bed, to an underlay, or to any other object;

[0029] soft light walls, for extra shade or tent structure, which join to one, two, three, four or more sides of the skeleton's poles, to umbrella arms, to ground anchors, to a ground underlay, to an outdoor bed or to any other object, by dint of special connectors or appliances, or that can be steadied with bags that can be filled up with sand, stone, water or other material for stability of the tent structure;

[0030] a soft, flexible, light underlay, with holes and special connectors for joining it to poles, to ground anchors, and to soft, light walls, or that can be steadied with bags that can be filled up with sand, stone, water or other material for stability of the tent structure;

[0031] **Hand held umbrella to universal extra shade tent structure**, in which a hand held central lever consists of two parts joined to one other, wherein one part of lever, in the unfolded umbrella-tent position, supports umbrella arms, wherewith the second, lower part of lever with handle, can be removed from umbrella, or can telescope in the first part to extend downward to provide a central supporting pole, or can be turned in a horizontal position and lock into the umbrella frame.

[0032] **Hand held umbrella to universal extra shade tent structure**, in which a hand held lever with a handle can slide and stay over the umbrella roof in the umbrella-tent unfolded position.

[0033] Another embodiment of the present invention **Universal extra shade tent structure to hand held umbrella** comprising of the following extra structural features:

[0034] telescopic, folding or other lever extension with special appliances on the ends, which join it, by one end, to the umbrella hand held lever, and by second end, to the ground, to an outdoor bed, or to any other object or place in a vertical position;

[0035] three or more soft pulls, with special connectors on the ends, which join pulls, by one end, to the arms and also to the apex or other place of unfolded umbrella handle, and by the second end, to ground anchors, an outdoor bed, or any other object, where the umbrella is held in a vertical position;

[0036] a soft light wall, which partly or all over joins to pulls, to umbrella arms, to ground anchors, to a ground underlay, to an outdoor bed, or to any other object by dint of special connectors or appliances, and that may be steadied with bags that can fill up with sand, stone, water or other materials for stability of the tent structure;

[0037] a soft, light underlay with a special appliance on the center for joining a lever extension to the ground, and special appliances or holes, for joining pulls to the ground anchors that may be steadied with bags, sand, a stone, water or other materials for stability of the tent structure.

Brief description of the several views of the drawing.

[0038] The accompanying drawings which are incorporated, constitute a part of the specified embodiments of the inventions are illustrated, which, together with a general description of the invention given above, and the detailed description given below, serve to demonstrate and explain principles of this invention.

[0039] Fig. 1A to 1F show Universal extra shade tent structure to hand held umbrella in which the hand held lever can be demounted or can turn horizontally in the umbrella tent position.

[0040] Fig 1A shows a hand held umbrella.

[0041] Fig 1B. shows a hard poles.

[0042] Fig. 1C. shows a skeleton of umbrella-tent.

[0043] Fig.1D. shows a part of hand held lever removed from an umbrella, in a tent position.

[0044] Fig. 1E. shows an umbrella-tent with only one wall, in which the lever handle is turning in a horizontal position.

[0045] Fig. 1F. shows an umbrella-tent with two walls and an underlay, in which a lever handle is removed from umbrella.

[0046] Fig. 2A to 2E shows Universal extra shade tent structure to hand held umbrella whose hand held lever can slide over the umbrella roof in the umbrella tent position.

[0047] Fig. 2A. shows an umbrella.

[0048] Fig. 2B. shows an umbrella in which hand lever slides over the roof in the umbrella-tent position.

[0049] Fig. 2C. shows a skeleton of the umbrella-tent with an underlay.

[0050] Fig. 2D shows an umbrella-tent with all walls attached, forming a fully enclosed tent structure.

[0051] Fig. 2E. shows a skeleton of the umbrella-tent with two walls attached to an outdoor bed.

[0052] Fig. 3A to 3D shows an umbrella, whose handle can slide from under the roof umbrella-tent position to over the roof umbrella-tent position and back.

[0053] Fig. 3A. shows an umbrella in the unfolded position.

[0054] Fig. 3B. shows an umbrella in the umbrella-tent unfolded position.

[0055] Fig. 3C. shows an umbrella in folded position.

[0056] Fig. 3D shows an umbrella lever in two projections.

[0057] Fig. 3E to 3G shows an umbrella, whose handle can turn horizontal in the umbrella-tent position.

[0058] Fig.3E shows an umbrella in the unfolded position.

- [0059] Fig 3F shows an umbrella in a folding position.
- [0060] Fig.3G shows an umbrella in the unfolded umbrella-tent position.
- [0061] Fig.3H to 3J shows an umbrella, whose handle can be removed from the umbrella in the umbrella-tent position.
- [0062] Fig.3H shows an umbrella in the unfolded position.
- [0063] Fig.3 I shows an umbrella in the unfolded umbrella-tent position.
- [0064] Fig.3J shows an umbrella in folding position.
- [0065] Fig.3K to 3L shows an umbrella-tent skeleton, which has telescopic lag-pulls.
- [0066] Fig.3K shows operation of the umbrella-tent telescopic arm-pole.
- [0067] Fig.3L shows the hand umbrella in tent position.
- [0068] Figs. 4A to 4G. show a second example of Universal extra shade tent structure to hand held umbrella with a lever extension and soft pulls.
- [0069] Fig. 4A. shows an umbrella.
- [0070] Fig. 4B. shows an umbrella, which joins to the telescopic handle extension.
- [0071] Fig. 4C. shows parts of a telescopic lever extension.
- [0072] Fig. 4D. shows an umbrella-tent structure with a telescopic handle extension, soft pulls, and one wall.
- [0073] Fig. 4E. shows an umbrella-tent structure with telescopic handle extension, soft pulls, two walls, and an underlay.
- [0074] Fig. 4F. shows a soft wall and a soft underlay.
- [0075] Fig. 4G. shows an umbrella-tent structure, which joins to an outdoor bed.
- [0076] **Reference Numerals In Drawing.**
- 10. the arm of umbrella skeleton.
 - 10a. the arm umbrella connector for a hard pole.
 - 10b. the telescopic arm.
 - 12. the umbrella hand held lever.
 - 12a. the part of hand lever, which can be removed from the umbrella or turn horizontally.
 - 12b. the sliding hand held lever of the umbrella.
 - 12c. the handle of a hand held lever.
 - 12d. the top part of the umbrella lever handle.
 - 14. the hard pole.
 - 14a. the soft pull.
 - 14b. the special connector.
 - 14c. the folding poles.

- 14d. the telescopic poles.
- 16a. the soft light wall of umbrella-tent.
- 16b. the soft light wall of umbrella-tent.
- 16c. the soft light wall of umbrella-tent.
- 16d. the soft light wall of umbrella-tent.
- 18 the underlay.
- 20 the ground.
- 22. the outdoor bed.
- 24a. the slide roof skeleton swivel-block.
- 24b. the slide skeleton supports swivel-block.
- 26. the telescopic lever extension.
- 26a. the lever extension connector to the umbrella handle.
- 26b. the top part of the telescopic lever extension.
- 26c. the bottom part of the telescopic lever extension.
- 26d. the lever extension connector to an outdoor bed.
- 28. the anchor.
- 30. the hole on the center of the underlay.
- 32. the umbrella roof.
- 34. the hole on the corner of the underlay.
- 36. the underlay pole connector.

Detailed description of the invention

[0077] With reference to the drawings, an embodiment of a **Universal extra shade tent structure to hand held umbrella** is illustrated that is constructed in accordance with the present invention.

[0078] **Universal extra shade tent structure to hand held umbrella** shown in Figs. 1A to 1F, 2A to 2E, 3A to 3J is comprised of the following extra structural features:

[0079] three or more hard poles 14, with special appliances 14b on the ends, which joins poles 14, by one end, to unfolded umbrella arms 10 and perhaps also to the top apex of the lever 12d, and by the second end, to the ground 20, or to an outdoor bed 22, or to an underlay 18, or to any other object;

[0080] a soft light wall 16a,b,c,d, for extra shade or tent structure enclosure, which partly or all over joins to hard poles 14, to umbrella arms 10, to a ground underlay 18, an outdoor bed 22, or any other object, by dint of connectors or appliances;

[0081] a soft light underlay 18, with holes and connectors for hard poles 14 and any other

appliances, as needed. The soft underlay can include soft walls and soft pulls as one product.

[0082] A universal tent structure can work with any kind of hand held beach umbrella, but the most comfortable umbrella-tent structure uses an umbrella, whose handle lever can be taken out Fig.1D,1F and Fig. 3H to 3J, or can be turned horizontally Fig. 1E and Fig. 3E to 3G., or can slide over the umbrella's roof Figs. 2A to 2E and Fig. 3A to 3D.

[0083] Figs.1D and 1F show an **Universal extra shade tent structure to hand held umbrella**, whose umbrella, Figs 3H to 3J, hand held lever 12 consists of two parts 12a and 12d joined to one another, for example by screw-thread 12f, wherein in the unfolded umbrella-tent position, part of lever 12d supports the umbrella legs 10, and part of lever handle 12a, can be removed from the umbrella.

[0084] Fig.1E shows an **Universal extra shade tent structure to hand held umbrella**, whose umbrella, Figs 3E to 3G, hand held lever 12 consists of two parts 12a and 12d joined to one another, for example by swivel 12e, wherein in the unfolded umbrella-tent position, part of lever 12d supports the umbrella legs, and part of lever handle 12a, can be turned horizontally.

[0085] Fig.2A to 2E show a **Universal extra shade tent structure to hand held umbrella**, whose umbrella, Figs 3A to 3D, hand held lever 12 in the unfolded umbrella-tent position slides over the umbrella roof. Fig. 3A to 3D show a special, optimal umbrella for a universal tent structure, whose skeleton has slide swivel-block 24a on the roof's arms and slide swivel-block 24b on the roof's support elements and where a hand lever 12 slides under the roof 32 in the umbrella position and slides over roof 32 in the umbrella-tent position.

[0086] Fig.3K and 3L show **Hand held umbrella to universal extra shade tent structure**, whose skeleton consists of three or more telescopic collapsible arm-poles 10b, 14c, wherein telescopic poles 14c are inside legs 10b in umbrella unfolding position, and outside legs 10b, when telescopic poles 14c support the umbrella-tent structure in unfolding position, herewith an umbrella soft roof can be one product with soft walls, which can be slide-connected to telescopic poles 14c and can partly or all over cover an unfolding umbrella-tent structure.

[0087] **Universal extra shade tent structure to hand held umbrella**, that in unfolding umbrella-tent position is free of any underlay 18, can be extra used for sun, rain protection the group of few peoples, are walking and holding poles 14, as extra hand held handles, to carry an umbrella-tent structure.

[0088] Figs. 4A to 4G show a **Universal extra shade tent structure to a hand held umbrella**, which is comprised of the following extra structural features:

[0089] a telescopic or any kind of lever extension 26 with special appliances on the ends, which join the extension 26, by one end, to the umbrella lever 12, and by second end, to the ground 20,

or to an outdoor bed 22, underlay 18, or other object or place, in a vertical position;

[0090] three or more soft pulls 14a, with special connectors on the ends, which join pulls 14a by one end, to the apex of the unfolded umbrella handle 12 and also to the arms 10, and by the second end, to the ground 20 by anchors 28, an outdoor bed 22, an underlay with bags of any heavy material inside, or any other object, which holds the umbrella tent in a vertical position;

[0091] a soft light wall 16a,b,c,d , which partly or fully joins to pulls 14a, umbrella arms 10, and to a ground anchor 28, ground underlay 18, outdoor bed 22, or any other object by dint of connectors or appliances;

[0092] a soft light underlay 18 which has a hole 30 in the center, for joining lever extension 26 to the ground 20, and special appliance and holes 34 around and on the corners, for joining pulls 14a to the ground anchors 28, and joining soft walls and other attachments.

[0093] A soft underlay 18, and walls 16 may be partly comprised of bags, which can fill up with sand, stone, water or other substances, and be used to add stability to the umbrella-tent structure.

[0094] The soft underlay 18 can include soft walls 16 and soft pulls 14a as one product.